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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Inventor: Takahisa AOYAMA Group Art Unit: 2645  
Appln. No.: 09/936,730 Examiner: A. Hoosain  
Filed: September 17, 2001  
For: BASE STATION APPARATUS PROVIDED WITH ARRAY  
ANTENNAS AND RECEPTION METHOD USING THE SAME  
ANTENNAS

RECEIVED

RESPONSE UNDER 37 CFR § 1.111

OCT 20 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Technology Center 2600

Sir:

In response to the Office Action dated July 19, 2004,  
reconsideration and allowance are respectfully requested in light  
of the following remarks.

Claims 1-5 stand rejected, under 35 USC §102(e), as being  
anticipated by Kobayakawa et al. (US 6,064,338). Applicant  
respectfully traverses these rejections.

The Office Action proposes that Kobayakawa discloses in  
column 6, lines 51-58, a multiplication means that performs  
multiplication processing, at a point of time when communication  
is opened, using reception weights calculated during a previous  
communication (see Office Action page 2, last paragraph).

However, the Applicant respectfully submits that Kobayakawa does not disclose this feature.

Instead, Kobayakawa discloses in the cited portion that the path arrival direction of a user signal is estimated from correlation signals, and the signals received by each of the antennas in an array are multiplied by weights at arbitrary times (e.g., every several symbols) in such a manner that the antenna beam is pointed in a direction estimated from the generated information, thereby pursuing the user (Kobayakawa col. 6, lines 51-58). Kobayakawa provides no disclosure of a previous communication or its relationship to the application of reception weights to a newly opened communication.

Accordingly, Applicant submits that Kobayakawa does not anticipate the feature recited in claim 1 of a multiplication means that performs multiplication processing, at a point of time when communication is opened, using reception weights calculated during a previous communication. Therefore, allowance of claim 1 and dependent claim 2 is warranted.

Independent claims 3 and 4 similarly recite the feature distinguishing apparatus claim 1 from Kobayakawa, though claim 4 does so with respect to a method. For similar reasons that this feature distinguishes claim 1 from Kobayakawa, so too does it

distinguish claims 3 and 4. Therefore, allowance of claims 3 and 4 and all claims dependent therefrom is warranted.

Dependent claim 2 recites generating reception weights to be applied to a newly opened communication using: (1) reception weights of a previous communication and (2) moving states derived from the reception weights of the previous communication.

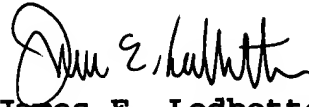
Kobayakawa does not disclose deriving moving state information from reception weights of a previous communication and does not disclose using such information to generate reception weights for application to a newly opened communication. Dependent claim 5 recites similar features, but with respect to a method rather than an apparatus. Accordingly, Applicant submits that Kobayakawa does not anticipate the subject matter of claims 2 and 5 for these independent reasons and these reasons further warrant the allowance of claims 2 and 5.

In view of the above, it is submitted that this application is in condition for allowance and a notice to that effect is respectfully solicited.

If any issues remain which may best be resolved through a telephone communication, the Examiner is requested to telephone

the undersigned at the local Washington, D.C. telephone number listed below.

Respectfully submitted,



James E. Ledbetter  
Registration No. 28,732

Date: October 15, 2004  
JEL/DWW/att

Attorney Docket No. L9289.01185  
STEVENS DAVIS, MILLER & MOSHER, L.L.P.  
1615 L Street, N.W., Suite 850  
P.O. Box 34387  
Washington, D.C. 20043-4387  
Telephone: (202) 785-0100  
Facsimile: (202) 408-5200